

## EAST Search History

| Ref # | Hits  | Search Query   | DBs                                       | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|---|------------------|---------|------------------|
| L1    | 19    | (piezoelectric adj (actuator device switch)) same (hole) same (flexible near (board circuit))            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2008/06/22 10:18 |
| L2    | 5     | (piezoelectric adj (actuator device switch)) and (hole) and (flexible near board) and (touch adj screen) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2008/06/22 10:26 |
| L3    | 5     | (piezoelectric adj (actuator device switch)) and (flexible near board) and (touch adj screen)            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2008/06/22 10:27 |
| L4    | 441   | (piezoelectric adj (actuator device switch)) and (touch adj screen)                                      | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2008/06/22 10:27 |
| L5    | 43    | (piezoelectric adj (actuator device switch)) same (touch adj screen)                                     | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2008/06/22 10:27 |
| L6    | 34275 | (piezoelectric adj (actuator device switch))   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2008/06/22 12:18 |
| L7    | 1011  | (piezoelectric adj (actuator device switch)) same board  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2008/06/22 12:19 |
| L8    | 18    | (piezoelectric adj (actuator device switch)) same (flexible near board)                                  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2008/06/22 12:20 |
| L9    | 197   | (piezoelectric adj (actuator device switch)) and (touch adj screen) and hole                             | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR               | ON      | 2008/06/22 12:27 |

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| L10 | 5    | (piezoelectric adj (actuator device switch)) and (touch adj screen) and hole and (flexible near board)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 12:28 |
| L11 | 8671 | (piezoelectric near (actuator device switch element)) and (through near hole)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 13:21 |
| L12 | 2101 | (piezoelectric near (actuator device switch element)) same (through near hole)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 13:22 |
| L13 | 7    | (piezoelectric near (actuator device switch element)) same (through near hole) same (flexible near board)  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 13:22 |
| L14 | 32   | (piezoelectric near (actuator device switch element)) same (through near hole) same bimorph  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 13:24 |
| L15 | 28   | ("4428748"   "4634420"   "4863443"   "5311871"   "5354265"   "5486162"   "5562610"   "5569968"   "5582184"   "5656016"   "5674226"   "5682233"   "5728089"   "5746217"   "5820570"   "5823973"   "5879310"   "5879367"   "6210988"   "6224566"   "6241700"   "6249075"   "6300706"   "6448622"   "6475214"   "6484052"   "6490474"   "6638249").PN. OR | US-PGPUB; USPAT; USOCR                    | OR | ON | 2008/06/22 13:26 |

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|     |     | ("6923790").URPN.  |   |    |    |                  |
| L16 | 3   | (piezoelectric same (actuator device switch element)) same bimorph same hole same (flexible same board)            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 13:36 |
| L17 | 3   | (piezoelectric same (actuator device switch element)) same bimorph with hole with (flexible same board)            | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 13:37 |
| L18 | 160 | (piezoelectric same (actuator device switch element)) same bimorph same hole                                       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 13:38 |
| L19 | 2   | (piezoelectric same (actuator device switch element)) same bimorph same hole same ((touch adj screen) display lcd) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 16:14 |
| L20 | 21  | (piezoelectric same (actuator device switch element)) near bimorph same hole                                       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 16:16 |
| L21 | 52  | (piezoelectric same (actuator device switch element)) same bimorph same (through near hole)                        | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 16:22 |
| L22 | 0   | "345"/\$.cls. and 18   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 16:31 |
| L23 | 78  | "345"/\$.cls. and 4  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 16:31 |
| L24 | 24  | (piezoelectric same (actuator device switch element)) same bimorph same (flexible same board)                      | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/06/22 16:37 |
| L25 | 2   | ("6635837"   "6882455").PN. OR ("7088018").URPN.   | US-PGPUB; USPAT; USOCR                    | OR | ON | 2008/06/22 16:44 |

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| L26 | 4  | ("5101278"  <br>"5633763"  <br>"5675444"  <br>"6437485").PN. OR<br>("6710950").URPN.                       | US-PGPUB;<br>USPAT; USOCR                          | OR | ON | 2008/06/22<br>16:45 |
| L27 | 15 | (piezoelectric adj<br>(actuator device<br>switch)) same bimorph<br>same (flexible same<br>(board circuit)) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/06/22<br>16:46 |
| L28 | 13 | (piezoelectric same<br>bimorph) same (board<br>circuit) same (through<br>near hole)                        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/06/22<br>17:40 |
| L29 | 34 | (piezoelectric same<br>bimorph) same (board<br>circuit) same (hole)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/06/22<br>17:43 |
| L30 | 13 | (piezoelectric same<br>bimorph) and (through<br>near hole) and (touch<br>near (panel screen))              | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/06/22<br>17:45 |
| L31 | 3  | "20020149296"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/06/22<br>17:48 |
| L32 | 4  | "20070146334"<br>"20060050059"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON | 2008/06/22<br>17:48 |

6/ 22/ 2008 5:59:29 PM